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FACILITY FORM 602	N65-86242	
	(ACCESSION NUMBER)	(THRU)
	4	None
	(PAGES)	(CODE)
	(NASA CR OR TMX OR AD NUMBER)	(CATEGORY)

PROGRESS REPORT NO. 2

A Longitudinal Study of Naval Flight Students With
Particular Attention to Cardiovascular Response.

1 January 1965 to 31 March 1965

During this quarter efforts have been directed toward 1) final scheduling of subjects and 2) completion of data processing in so far as possible.

Procurement of Subjects

In order to schedule the maximal number of participants within the remaining months, unscheduled members were personally telephoned for appointments over government lines. A letter with preliminary diagnostic results of the study was also sent to surviving members to stimulate interest in the program. The response was of such magnitude that plans to examine subjects in the field were dropped.

Data Processing

Routine data processing was brought up to date on all members examined and a special scheme was devised for analysis of the exercise electrocardiogram. Doctor T. J. Reeves, University of Alabama, was consulted regarding the most profitable use of our ballistocardiographic data. Computer programs have subsequently been developed for the evaluation of exercise electrocardiograms and ballistocardiograms.

Ninety-four variables were selected for intercorrelations and presentation of frequency distribution.

Processed data on each member of the "Thousand Aviator" study group has reached the proportion of more than 95 punch cards per person.

<u>Item</u>	<u>Punch Cards</u>
Medical History and Questionnaires	9
Personal History	1
Physical Examination	1
Diagnoses	5
Laboratory	1

<u>Item</u>	<u>Punch Cards</u>
<u>Anthropometry</u>	2
<u>Roentgenograms</u>	1
<u>Pulmonary Function</u>	1
<u>Electrocardiograms</u>	15
<u>Exercise electrocardiograms</u>	51
<u>Ballistocardiogram</u>	3
<u>Vestibular Function</u>	1
<u>Guilford Zimmerman Personality Inventory</u>	1
<u>Audiometrics</u>	2
<u>Plathymography</u>	1
<u>Startle</u>	3
<u>Flight Time</u>	1
<u>Facilities</u>	

The Cardiology Branch has now moved into quarters at the new School of Aviation Medicine.

Present status of medical evaluation of surviving members of group

Known survivors	793
Located	794
Not Located	4
Examinations completed	610
Prior to 1 June 1964	514
1 January-31 March 65	96
Appointments scheduled	73
Confirmed by members	63
Not confirmed by mhrs	10
Uncommitted members	115

Of the unsubmitted members 29 have shown no interest in the program; 63 will submit to complete examination, but are unable to travel to Pensacola at this time; 23 have been delayed by business, temporary residence outside USA, physical disability, etc., but still plan to return for examination. Medical records, of course, shall be obtained on those survivors still on active duty.

Tentative conclusions regarding the extent of follow-up at the termination of the present evaluation are as follows:

88% Complete evaluation.

93% Questionnaires plus partial examination.

96% Questionnaires.

4% No follow-up.

Miscellaneous

A request to the Bureau of Medicine and Surgery for inclusion of a special cardiovascular autopsy form in the emergency data jacket of each "Thousand Aviator" on active duty has been approved.

Our apparatus for taping forced vital capacities has been modified so that forced inspiratory maneuvers may also be recorded now.